

200500084

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Hioneer Hi-Bred International, Inc.

Augustic, there has been presented to the

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC PLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE SURPOSE. OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT (THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### SOYBEAN

'94M80'

In Testimony Thereof. I have hereunto set my hand and caused the seal of the Hunt Anxiety Trotection Office to be affixed at the City of Washington, D.C. this twenty-third day of June, in the year two thousand and five.

Allad

Dens

Commissioner

Plant Variety Protoction Office Agricultural Marketing Service

ary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(madacions and information cone	cuon barden statement on re	verse)				
NAME OF OWNER Pioneer Hi-Bred Inte	rnational, Inc		-	2. TEMPORARY DESIGNATEXPERIMENTAL NAME X848T04	3. VARIETY NAME 94M80	
4. ADDRESS (Street and No., or R.F.D. No. 7300 N. W. 62 <sup>N</sup> Avenue P.O. Box 1004 Johnston, IA 50131	, City, State, and ZIP Code, and Cour	itry)		5. TELEPHONE (include area code) 515-254-2638		FOR OFFICIAL USE ONLY PVPO NUMBER
		•	6. FAX (include area cod 515-253-2478	e) <b>20</b>	0500084 FILING DATE	
IF THE OWNER NAMED IS NOT A "PER: ORGANIZATION (corporation, partnership Corporate	8. IF INCORPOR STATE OF IN-	PATED, GIVE 9. DATE OF INCORPORATION May 6, 1926			1/18/2005	
10. NAME AND ADDRESS OF OWNER R Daria Schmidt, Ph. D. 7300 N.W. 62 <sup>rd</sup> Avenue P.O. Box 1004 Johnston ,IA 50131-1004	Steve Callistein, Exq 7100 N.W 62 <sup>th</sup> Avenue P.O Box 1000 Johnston, IA 50131-1000			receive all papers)		FILING AND EXAMINATION FEES: \$ 3,652.00  DATE 1/18/2005  CERTIFICATION FEE: \$ 432  DATE 5/11/2005
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area code) 515-253-2478		E-MAIL :hmidt@pioneer.com		14, CRC Soybean	DP KIND (Common Name)
18. CHECK APPROPRIATE BOX FOR EACH reverse)  a. X Exhibit A. Origin and Breedin  b. X Exhibit B. Statement of Distin  c. X Exhibit C. Objective Descript  d. X Exhibit D. Additional Descript	19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act)  YES (If "yes", answer items 20					
verilication that tissue culture wi repository)	e untreated seeds or, for tuber propag ill be depositied and maintained in an o	approved public	IF YES, SPEC NUMBER 1, 2,		on	YES NO  REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HA FROM THIS VARIETY BEEN SOLD, DISP OTHER COUNTRIES?  YES  IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCUIT	23. IS THE VARIE PROPERTY R	TY OR ANY COMPONENT OF IGHT (PLANT BREEDER'S RIG	THE VARIET	TY PROTECTED BY INTELLECTUAL ENT)?  NO E AND ASSIGNED		
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cult.  The undersigned owner(s) is(are) the owner and is entitled to protection under the provious countries.  Owner(s) is(are) informed that false representations.	r of this sexually reproduced or tuber sions of Section 42 of the Plant Variet	propagated plant va- ly Protection Act.	riety, and believe(s) tha	d upon request in accordance we certificate.  It the variety is new, distinct, un	vith such regu	ulations as may be applicable, or able as required in Section 42,
SIGNATURE OF OWNER  DOUGT SON	midt		SIGNATURE OF O	WNER		
NAME (Please print or type) Daria H. Schmidt			NAME (Please print	or type)		
CAPACITY OR TITLE  Director, Technology Integration and Associative	'11 <i>T</i>	105	CAPACITY OR TITI			DATE
Γ-470 (04-01) designed by the Plant Variety Prot	ection Office with WordPerfect 6.0a.	Replaces STD-470 (	02-99) which is obsole	ie. (See reverse for instr	uctions and in	nformation collection burden statement)

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO. (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filling fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

#### ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- .18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotage, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

## Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 94M80

Variety 94M80 evolved from a cross made in the summer of 1999 in Illinois with the following parentage:

94B53/H02353

H02353 = YB46K/T00593H117 YB46K = 9362/9444 T00593H117 = S4260/9492\*

\*9492 is a commercial line with the Roundup Ready (40-3-2) gene

Variety 94M80 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 94M80 was grown in a plant row in Argentina in 2000/01. Subsequently, 94M80 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, Soybean cyst nematode Race 3 resistance, resistance to Roundup branded herbicides, variety 94M80 was assigned a commercial number.

The purification block was grown during the summer of 2002 in Illinois and 31 sublines were harvested. An approximately half (1/2) acre increase was grown in Argentina in the winter of 2002/03. Approximately twenty-three (23) acres of parent seedstock (foundation seed equivalent) were grown in 2003 and approximately 1019 acres of seedstock and production seed were grown in the summer of 2004.

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### Exhibit B. Statement of Distinctness

Soybean Variety 94M80

Variety 94M80 is most similar to variety 9492. Both varieties have white flowers, tawny pubescence, black hila, resistance to Race 3 of Soybean cyst nematode, and resistance to Roundup branded herbicides. However, 94M80 has alleles 1 and B at the isozyme loci IDH2 and MDH, respectively, whereas 9492 has alleles 2 and A at the isozyme loci IDH2 and MDH, respectively.

	ACO2	ACO3	ACP	ENP	IDH2	MDH	MPI	PGM1	PHI1
94M80	2	1	Α	Α	1	В	Α	1	1
9492	2	1	Α	Ą	2	Α	Α	1	1

Variety 95M30 is also distinct from Hartz H4884RR. Both varieties have white flowers, tawny, black hila, resistance to Race 3 soybean cyst nematode, and resistance to Roundup branded herbicides. However, 94M80 is resistant to Sudden Death Syndrome, SDS, (causal agent, Fusarium solani) whereas H4884RR has a moderately be: 2/25 score as shown in the variety characteristics chart (documents included). For 94M80, variety response to SDS was determined from multiple year (2), replicated bioassay screening in infected disease nurseries. In all cases, known resistant and susceptible checks are included in bloassay screens for data quality assurance. For comparison purposes, below is a table with scores for 94M80, 9492 (susceptible check) and 94M90 (resistant check)

SDS Score
8
3
7
4

Pioneer score scale for SDS: 1-3 = susceptible, 4-6 = intermediate, 7-9 = resistant Hartz score scale for SDS: 1 = excellent, 9 = poor (reference literature provided)

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

		ECTIVE DESCR SOYBEAN ( <i>Glyc</i>			
NAME OF APPLICANT(S) Pioneer Hi-Bred, International				FOR OFFICIAL USE ONLY	7
ADDRESS (Street and No. or R.F.D. No., City, State,	and Zip Cod			2 0 0 5 0 0	084
P.O Box 1004 Johnston, IA 50131-1004			•	94M80	
				TEMPORARY OR EXPERI DESIGNATION	MENTAL 1:1/31/2005 per
PLEASE READ ALL INSTRUCTIONS (	CAREFULLY: Place	the appropriate nur	uber that describes t	de varietal character of this variety in the	plicant's ainn
Place a zero in the first box (e.g. quantitative		or 0 9)		ther 99 or less or 9 or less respectively.	
plant characters chould be based on a min	nimum of 100 plants	. Comparative data	should be determined	from variaties entered in the same trial	Powel
Horticulutral Society or any recognized c Please answer all questions for your varie	olor standard may b	e used to determine p	olant colors; designat		
A. MORPHOLOGY					
Seed Shape:					
1 = Spherical (L/W, L/T, and T/W	ratios < 1.2)	_	erical - Flattene atio > 1.2; L/T ra		•
3 = Elongated (L/T ratio . 1.2; T/W	ratio < 1.2)		ngate - Flattened tio > 1.2;T/W rat		
Seed Coat Color:					
1 = Yellow	2 = Green	3 = Brown	4 = Black	5 = Other	
Seed Coat Luster:				(Please Specify	
1 = Dull	2 = Shiny	·			•
Seed Size:	4				
16.5 grams/100 seed	ls				
Hilum Color:					
6 1 = Buff 6 = Black	2 = Yellow 7 = Other (Ple	3 = Brown	4 = Gray	5 = Imperfect Black	,

## A. MORPHOLOGY (Continued)

**Cotyledon Color:** 

1

1 = Yellow

2 = Green

**Seed Protein Peroxidase Activity:** 

2

1 = Low

2 = High

**Hypocotyl Color:** 

1

1 = Green ('Evans' or 'Davis') 2 = Green with Bronze Bands below Cotyledons

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to

unifoliolate leaves ('Hodgson', 'Coker', or

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1.

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1

1 = Tan

2 = Brown

3 =Black

**Pubescence Color:** 

2

1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

3

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

**Maturity Group:** 

07

1 = 000

11 = VIII

2 = 00

3 = 0

4 = I

5 = II

6 = III

7 = IV12 = IX

8 = V13 = X

9 = VI14 = XI

10 = VII15 = XII

Maturity Subgroup:

8

Please enter a value from 0 - 9

**B. DISEASE REACTION** 

0 = Not Tested

1 = Susceptible 2 = Resistant

3 = Tolerant

**Bacterial** 

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf Foster) Young, Dye, Wilkie)

. B. I	DISE	EASE REACTI	ON	(Continued)	0 = N	ot Tested	1 = Sus	ceptibl	e 2 = Resistant	3 = Tole	rant
F	unga	1									
. [	1	Brown Spot (S	Septori	ia glycinesHemmi	)						
		Frogeye Leaf S	pot (	Cercospora sojina	t Hara)						
	0	race 1		0 race 2			0	race	3	<b>0</b> r	ace 4
	0	race 5		0 race 6			0	Oth	e ( <i>Please Specify</i> ) $0$		
	0	Target Spot (C	orynes	spora cassiicola (	Berk. (	Curt.) Wei)					
	0	Downey Mildew	(Pero	onospora trifolior	um var.	manchuric	a (Naum	.) Syd.	ex Gäum)		
	0	Powdery Milde	w (Mic	rosphaera diffuse	z Cke. a	and Pk.)					
	0	Brown Stem Ro	t (Ph	ialophora gregato	(Allin	gton <sub>-</sub> Chan	nberlain)	W. Ga	ms.)		
	0	Stem Canker (1	Diapor	the phaseolorum	(Cke. a	and Ell.) Sa	icc. var. <i>c</i>	aulivor	a Athow and Cald	vell)	
	1	Pod and Stem B	light	(Diaporthe phase	olorum	(Cke. and	Ell.) Sac	c. var.	sojae (Lehman) We	hm.	
	0	Purple Seed Stai	in (	Cercospora kikuc	hii (T.	Matsu. an	d Tomoy	asu) Ga	ardener)		•
	1	Rhizoctonia Roo	t Rot	(Rhizoctonia so	<i>lani</i> Ki	ihn)					
Ph	ytopl	nthora Root Rot (	Phytop	ohthora megasper	rma D	rechs. f. sp	glycined	t (Kua	n Ærwin))	·	
	0	race 1	0	race 8	0	race 15		0	race 22		
	0	race 2	0	race 9	0	race 16		0	race 23		
	0	race 3	0	race 10	0	race 17		0	race 24		
	1	race 4	0	race 11	0	race 18	. [	1	race 25		
	0	race 5	0	race 12	0	race 19		0	race 26	·	
	0	race 6	0	race 13	0	race20		•	Other (Please Spe	cify)	
	1	race 7	0	race 14	0	race 21	_		-		
	1	Bud Blight (Toba	ecco R	ingspot Virus)			÷				
	1	Yellow Mosaic (b	ean Y	ellow Mosaic Vi	rus)				÷		

B. DI	SEASE REACTIONS	(Continued) 0	= Not Test	ed   1 = Su	sceptible	2 = Resistant	3 = Tolerant	
Fung	<b>gal</b>							
1	Cowpea Mosaic (Cowpe	ea Chlorotic Virus	5)					
1	Pod Mottle (Bean Pod N	Mottle Virus)	·					
1	Seed Mottle (Soybean M	Aosaic Virus)				·		
Nem	atode						•	
Soyb	ean Cyst Nematode (Hetero	odera glycines Ich	inohe)					
1	race 1 0 ra	ace 4	0 race	e 9				
1	race 2 1 ra	ace 5	0 race	e 14				
2	race 3 0 ra	ace 6	Oth	er ( <i>Please</i>	Specify)		•	
0	Lance Nematode (Hop.	loaimus columbus	Sher)					
0	Southern Root Knot New	matode ( <i>Meloidog</i>	yne incogni	ita (Kofoid	and White	Chitwo		
0	Northern Root Knot Ne	matode ( <i>Meloidog</i>	yne hapla (	Chitwood)			·	
0	Peanut Root Knot Nema	tode ( <i>Meloidogyn</i>	e arenaria	(Neal) Chity	wood)	•		
0	Reniform Nematode (Re	otylenchus renifor	<i>mus</i> Linwo	od and Oliv	era)			
0	Javanese Nematode (Me	eloidogyne javanic	a (Treub)	Chitwood)				
0	Other Nematode (Pleas	se Specify) 0						
. PH	YSIOLOGICAL RESP	ONSES 0 =	Not Teste	d 1 = Sus	ceptible	2 = Resistant	3 = Tolerant	•
1	Iron Chlorosis on Calcar		•					
0	Phosphorus		0	Other (Pl	ease Specif	y) 0		
0	Boron					•		
0	Aluminum							
0	Salt	·						t
0	Drought				-			

D. INS	ECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	005000 3 = Tolerant	84
Fungal						
0	Mexican Bean Beetle (Epilachna vari	vestis Mulsant)				
0	Potato Leaf Hopper (Empoasca fabae	(Harris))				
0	Other (Please Specify)					
Е. НЕ	RBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant		
0	Metribuzin					
0	Bentazone					
1	Sulfonylurea					
2	Glyphosate				•	
0	Glufosinate					•
0	Pendimethalin					
0	Other (Please Specify) 0					
F. TRA	NSGENIC COMPOSITION					
Has the do	evelopment of the subject variety include al of genetic material from the application	ed the insertion of on variety?	genetic material fi	rom an organism	other than a soyb	ean, or,
	ase complete the following infomation re	-				
	state the vector's name:	•	r	,		•
2. Please	state the vector components:					
3. Please	describe the genetic material successfully	transferred into	the subject variety	*		•
4. Please	describe the insertion protocol:					
"Transger the vector	erature citation(s) explaining the four infair Composition" portion of this form. To components and insert elements are sunent, Identification, and Characterization	This section is full ımarized in Figur	y addressed in the e 1 and Table 1 on	following public page 1453. Pad	ation. Specific det gette, S.R. et al.	tails of
G. BIO	CHEMICAL MARKERS	11.1111				
Please des Simple Sec	cribe any biochemical information here, Juences Repeats, Restriction Fragment I	which you believe ength Polymorph	will be helpful in insins, Isozymic Ch	further describin aracterization).	ng the subject vari Use additional pa	ety (e.g. iges if

necessary.

H. COMMENTS

## **Exhibit D.** Additional Description of the Variety

Soybean Variety 94M80

In Exhibit C we have identified variety 94M80 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 94M80 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 94M80 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 94M80 is a late Group 4 variety. If Group 4 varieties are divided into tenths, the relative maturity of 94M80 is 4.8.

REPRODUCE LOCALLY. Include form number and edition date on al	Il reproductions.	ORM APPROVED - OMB No. 0581-0059
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paper	accordance with the Privacy Act of
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det- certificate is to be issued (7 U.S.C. 2- confidential until the certificate is issu	121). The information is held
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER  XBASTOA	94M80
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62 <sup>nd</sup> Avenue P.O. Box 1004 Johnston, IA 50131-1004	515-254-2638	515-253-2478
	7. PVPO NUMBER 2 0 0 5 (	0084
8. Does the applicant own all rights to the variety? Mark an "X" in the If no, please explain.		X YES NO
Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	X YES NO
10. Is the applicant the original owner?	If no, please answer one of the foll	<b></b>
XYES N		owing.
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	al(s)?
YES NO If no, give name of counts	ry	•
b. If the original rights to variety were owned by a company(ies)	is (are) the original owner(s) a U.S. bas	sed company?
YES NO If no, give name of country		
11. Additional explanation on ownership (If needed, use the reverse	tor extra space):	
Please Note:		
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
<ol> <li>If the rights to the variety are owned by the original breeder, that penaltional of a country which affords similar protection to nationals or</li> </ol>	erson must be a U.S. national, national of f the U.S. for the same genus and speci	of a UPOV member country, or es.
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a o genus and species.</li></ol>	yed the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by o nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who dir Act for definitions.	rected the final breeding. See Section 4	1(a)(2) ot the Plant Variety Protection
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